

**PENGARUH MODEL *PROJECT BASED LEARNING* TERHADAP SIKAP  
TANGGUNG JAWAB DAN PENGUASAAN KONSEP SISTEM  
PERNAPASAN PADA SISWA KELAS XI  
SMA NEGERI 1 NGEMLAK**

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**ABSTRAK**

Penelitian ini bertujuan untuk mengetahui (1) pengaruh model *project based learning* terhadap sikap tanggung jawab siswa, (2) pengaruh model *project based learning* terhadap penguasaan konsep siswa, (3) hubungan antara sikap tanggung jawab dan penguasaan konsep siswa pada pembelajaran system pernapasan kelas XI SMA Negeri 1 Ngemplak.

Jenis penelitian ini adalah *quasi experiment* (eksperimen semu). Desain penelitian yang digunakan adalah model *pretest-posttest control group design*. Populasi penelitian adalah semua siswa kelas XI SMA Negeri 1 Ngemplak. Sampel penelitian diambil dua kelas berdasarkan sensus, yaitu kelas XI-1 sebagai kelas kontrol dan kelas XI-2 sebagai kelas eksperimen. Instrumen penelitian menggunakan lembar observasi yang dikumpulkan untuk memperoleh data keterlaksanaan *project based learning*, lembar penilaian antar teman dikumpulkan untuk memperoleh sikap tanggung jawab siswa, dan soal tes dikumpulkan untuk memperoleh penguasaan konsep siswa. Analisis hasil penelitian menggunakan uji *One-Way ANOVA* untuk mengetahui perbedaan rata-rata sikap tanggung jawab dan penguasaan konsep antara kelas kontrol dengan kelas eksperimen, dan uji *Correlation Pearson* untuk mengetahui hubungan antara sikap tanggung jawab siswa dan penguasaan konsep siswa.

Hasil penelitian menunjukkan bahwa (1) pembelajaran dengan menggunakan model *project based learning* berpengaruh signifikan terhadap sikap tanggung jawab siswa ( $p < 0.05$ ), (2) pembelajaran dengan menggunakan model *project based learning* berpengaruh signifikan terhadap penguasaan konsep siswa ( $p < 0.05$ ), (3) terdapat hubungan yang signifikan antara sikap tanggung jawab dengan penguasaan konsep siswa ( $r_{hitung} > r_{tabel}$ ). Model *project based learning* sangat efektif digunakan untuk pembelajaran siswa pada materi system pernapasan kelas XI SMA Negeri 1 Ngemplak.

**Kata kunci :** *project based learning*, sikap tanggung jawab, penguasaan konsep

**INFLUENCE MODEL PROJECT BASED LEARNING TO THE ATTITUDE  
OF RESPONSIBILITY AND CONTROL CONCEPTS OF THE  
RESPIRATORY SYSTEM IN CLASS XI STUDENT OF SMAN 1  
NGEMPLAK**

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**Abstract**

*This research is aimed at (1) determining the effect of Project Based Learning on student's attitudes responsibility, (2) determining the effect of Project Based Learning on student's mastery of concepts, (3) knowing the relationship between the attitude of responsibility and the mastery of concepts of students of the respiratory system XI SMAN 1 Ngemplak.*

*This research was quasi experimental. The research design used of a model of pretest-posttest control group design. The research population was all class XI student of SMAN 1 Ngemplak. Samples were taken random two classes based census is a class 1 as the control class XI and class XI 2 as a class experiment. The research instrument used observation sheets to obtain data collected Project Based Learning, peer assessment sheets are collected to obtain attitude of responsibility, and tests was collected to obtain the mastery of concepts of students. Data analysis of the results used One-Way ANOVA to determine the difference of average attitude responsibility and the mastery of concepts between the control class and the experiment class, and correlation Pearson test to determine relationship between the attitude of the students responsibility and mastery of concepts students.*

*The results shows (1) Project Based Learning significantly influences the attitude responsibility students ( $p < 0.05$ ), (2) Project Based Learning significantly influences the mastery of concepts of students ( $p < 0.05$ ), (3) there is a significant relationship between the attitude responsibility and the mastery of concepts ( $r_{arithmetic} > r_{table}$ ). Model Project Based Learning is effective for learning respiratory system grade XI SMAN 1 Ngemplak.*

**Keywords :** *project based learning, responsibility, mastery of concepts*